## CAMPBELL UNIVERSITY KIVETT HALL ROOF REPAIR



## 113 MAIN STREET, BUIES CREEK HARNETT COUNTY, NORTH CAROLINA 27506

DATE: 08-06-2019

<u>OWNER</u>

Campbell University P.O. Box 535 Buies Creek, North Carolina 27506

Contact: Randall Johnson Email: johnsonr@campbell.edu



CONTRACTOR TO NOTIFY "NC 811" AT LEAST 5 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION TO HAVE EXISTING UTILITIES LOCATED.

## **SHEET INDEX:**

S001 - GENERAL NOTES, ABBREVIATIONS, & APPENDIX BS101 - FRAMING PLANSS201 - SECTIONS & DETAILS





2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	DESIGN LOADS:
	Importance Factors:Snow $(I_s)$ $\underline{1.1}$ Seismic $(I_E)$ $\underline{1.2}$
Jame of Project:   Campbell University Kivett Hall Roof Repairs     Address:   113 Main Street, Buies Creek NC   Zip Code   27506	Live Loads: Roof
wner/Authorized Agent: <u>Randall Johnson</u> Phone # (910) 893 - 1613 E-Mail johnsonr@campbell.edu	Ground Snow Load:psf
vice By: <u>Invate</u> vde Enforcement Jurisdiction: <u>County</u>	Wind Load:Ultimate Wind SpeedExposure CategoryE
ONTACT: _Dennis Folmar, Jr., Scalene Design; ph: (919)825-0925; dfolmar@scalene-design.com ESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL	<b>SEISMIC DESIGN CATEGORY:</b> C Provide the following Seismic Design Parameters:
itectural <u>N/A</u> (_)	Risk Category (Table 1604.5) III   Spectral Response Acceleration Sa
rical <u>N/A</u> (_) Alarm <u>N/A</u> (_)	Spectrum response reconciliationSite Classification (ASCE 7) $\underline{D}$
Ding     N/A     (_)       anical     N/A     (_)	Data Source: <u>Presu</u> Basic structural system <u>N/A</u>
ler-Standpipe <u>N/A</u> () ural <u>Scalene Design, PLLC</u> <u>Dennis Folmar, PE</u> <u>029410</u> (919)825-0295 <u>dfolmar@scalene-design.com</u>	Analysis Procedure: <u>N/A</u> Architectural, Mechanical, Components an
g Walls >5' High <u>N/A</u> (_)	LATERAL DESIGN CONTROL: N/A
BUILDING CODE: Renovation	SOIL BEARING CAPACITIES: <u>N/A</u> psf
C EXISTING BUILDING CODE: <u>Repair</u> <u>N/A</u> <u>N/A</u>	
CRUCTED:     (date)     N/A     CURRENT OCCUPANCY(S) (Ch. 3):     N/A       VATED:     (date)     N/A     PROPOSED OCCUPANCY(S) (Ch. 3):     N/A	MECHANI
TEGORY (Table 1604.5): Current: III Proposed: III	N/A - LIMITED STRUCTURAL REPAIRS ONLY
BUILDING DATA IMITED STRUCTURAL REPAIRS ONLY	ELECTRIC
Gross Building Area Table	N/A - LIMITED STRUCTURAL REPAIRS ONLY
MITED STRUCTURAL REPAIRS ONLY	
ALLOWABLE AREA IMITED STRUCTURAL REPAIRS ONLY	
ALLOWABLE HEIGHT	
MITED STRUCTURAL REPAIRS ONLY	
FIRE PROTECTION REQUIREMENTS	
IMITED STRUCTURAL REPAIRS ONLY	
NC Administrative Code and Policies	2018 NC Administrative Cade and Ballaian
	2018 NC Administrative Code and Policies
PERCENTAGE OF WALL OPENING CALCULATIONS	
LIMITED STRUCTURAL REPAIRS ONLY	
LIFE SAFETY SYSTEM REQUIREMENTS	
- LIMITED STRUCTURAL REPAIRS ONLY	
LIFE SAFETY PLAN REQUIREMENTS	
- LIMITED STRUCTURAL REPAIRS ONLY	
ACCESSIBLE DWELLING UNITS	
(SECTION 1107)	
- LIMITED STRUCTURAL REPAIRS ONLY	
ACCESSIBLE PARKING (SECTION 1106)	
- LIMITED STRUCTURAL REPAIRS ONLY	
PLUMBING FIXTURE REOUIREMENTS	
(TABLE 2902.1)	
LIMITED STRUCTURAL REPAIRS ONLY	
SPECIAL APPROVALS	
LIMITED STRUCTURAL REPAIRS ONLY	
DINIDIO CUNZ CUTINANA A DINZ	
ENERGY SUMMARY	
ENERGY SUMMARY IITED STRUCTURAL REPAIRS ONLY	
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ENERGY SUMMARY IMITED STRUCTURAL REPAIRS ONLY	
ENERGY SUMMARY - LIMITED STRUCTURAL REPAIRS ONLY	

2018 NC Administrative Code and Policies

$\Delta N(E Z_{-}) = 1 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +$	SIGN LOADS FOR BUILDINGS AND OT	
RISK CATEGORY: DESIGN LIVE LOADS:	UNIFORM 20 PSE	CONCENTRATE
*ALL LIVE LOADS ARE REDUC BUILDING CODES.	CED BASED ON TRIBUTARY AREA AS AL	LOWED BY THE
IMPORTANCE FACTOR, IS SNOW EXPOSURE FACTOR, I	1.10 CE 1.0	
	15 PSF	
EXPOSURE CATEGORY ENCLOSURE CLASSIFICATIO	B N ENCLOSED	
INTERNAL PRESSURE COEFFI TOPOGRAPHY FACTOR, KZT	CIENT, GCPI ±0.18 1.00	
APPLIED DIRECTIONALITY FA	CTOR, KD 0.85 TION) N/A - EXISTINC	G BUILDING
WIND BASE SHEAR (Y DIREC **ALL BUILDING COMPONE	TION) N/A - EXISTING NTS AND CLADDING WITH STRUCTURA	G BUILDING AL DESIGN DELEGATED
TO THE CONTRACTOR/MAN WIND LOADS DETERMINED	UFACTURER/SUPPLIER ARE REQUIRED T JSING THE ABOVE DESIGN CRITERIA IN	TO BE DESIGNED FOR ACCORDANCE WITH
THE GOVERNING BUILDING SEISMIC LOAD: USGS DESIGN MAP	CODE(S). ASCE 7-10	
DESIGN METHOD IMPORTANCE FACTOR, IE	EQUIVALENT L 1.0	ATERAL FORCE
SITE CLASS MAPPED SPECTRAL RESPON	SE ACCEL, SS 17.9%G	
SPECTRAL RESPONSE COEFF	SE ACCEL, ST 8.5%G ICIENT, SDS 19.1%G	
SFECTRAL RESPONSE COEFF SEISMIC DESIGN CATEGORY SEISMIC BASE SHEAP (Y DIPE	C C	
SEISMIC BASE SHEAR (Y DIRE ***ALL BUILDING COMPON	ECTION) N/A - EXISTINC N/A - EXISTINC NTS AND CLADDING WITH STRUCTUR	G BUILDING AL DESIGN DELEGATE
TO THE CONTRACTOR/MAN SEISMIC LOADS DETERMINE	UFACTURER/SUPPLIER ARE REQUIRED D LISING THE ABOVE DESIGN CRITERIA	TO BE DESIGNED FOR
WITH THE GOVERNING BUIL FUTURE LOADS: UNLESS SPECIFICALLY INDIC	DING CODE(S). CATED ON THE STRUCTURAL DESIGN DF	RAWINGS THERE HAV
BEEN NO DESIGN PROVISIO ACCOMMODATE FUTURE A	NS MADE TO ACCOMMODATE FUTUR DDITIONS TO THE STRUCTURE.	e loads or to
<b>••••</b>		
GENERAL G-01 THE CONTRACTOR IS RESPONSIBLE F		
DOCUMENTS AS WELL AS ANY OTHE	RECTURAL, MECHANICAL, ELECTRICA R APPLICABLE TRADES. THE CONTRAC	AL, AND PLUMBING TOR IS TO NOTIFY TH
USING THE REQUEST FOR INFORMAT G-02 THE STRUCTURAL CONTRACT DOCU	ION AND/OR SUBMITTAL PROCESS. MENTS REPRESENT THE EINIGHED STOLL	
WHERE SPECIFICALLY SHOWN DO N THE CONTRACTOR IS RESPONSIBLE	OT INDICATE THE MEANS OR METHOD	S OF CONSTRUCTIO
SEQUENCE, AND PROCEDURES. G-0.3 THE CONTRACTOR IS RESPONSIBLE F	OR THE STABILITY OF THE STRUCTURE A	AND FOR APPLICATIO
OF CONSTRUCTION LOADS TO THE S COMPLETE. THE CONTRACTOR IS RE	STRUCTURE UNTIL THE CONSTRUCTION SPONSIBLE FOR THE DESIGN, INSTALLA	OF THE STRUCTURE I
OF ALL TEMPORARY BRACING, FOR THE STRUCTURE DURING CONSTRUC	MWORK, SUPPORTS, AND SHORING RE TION. THE CONTRACTOR IS TO UTILIZE	EQUIRED TO STABILIZ A THIRD PARTY
STRUCTURAL ENGINEER TO PROVIDI BRACING, FORMWORK, SUPPORTS /	THE DESIGN AND DOCUMENTATION AND SHORING AS REQUIRED.	FOR TEMPORARY
G-04 THE CONTRACTOR IS TO VERIFY ALL AND CONDITIONS AS THEY APPLY TO	EXISTING UTILITIES AND EXISTING BUILT	DING DIMENSIONS ON. THE
CONTRACTOR IS TO NOTIFY THE DES THE START OF CONSTRUCTION USIN	IGN TEAM OF ANY IDENTIFIED DISCRE G THE REQUEST FOR INFORMATION AN	EPANCIES PRIOR TO
PROCESS. G-05 THE CONTRACTOR IS TO PROTECT A	LL EXISTING AND NEW UTILITIES, STRUC	CTURES, AND
FACILITIES FROM DAMAGE DURING G-06 ANY WORK NOT IN CONFORMANC	CONSTRUCTION. E WITH THE STRUCTURAL CONTRACT D	OCUMENTS OR THE
APPLICABLE BUILDING CODE(S) WIL ACCEPTABLE TO THE STRUCTURAL EI	L BE CORRECTED BY THE CONTRACTO	DR IN A MANNER
G-07 SECTIONS, DETAILS AND NOTES APP G-08 DO NOT SCALE STRUCTURAL DRAW	LY TO ALL LIKE OR SIMILAR CONDITION NGS TO OBTAIN DIMENSIONAL INFOR	NS. MATION. THE
FOR INFORMATION AND/OR SUBMI	TIMENSIONAL INFORMATION REQUIRE TTAL PROCESS.	
THROUGH STRUCTURAL ELEMENTS.	THE CONTRACTOR IS TO VERIFY ALL O	PENING SIZES AND
CONSTRUCTED USING TYPICAL DET/ DRAWINGS OPENINGS REQUIRED T	AILS AND CRITERIA PROVIDED ON THE HAT CANNOT CONFORM TO THE TYPI	STRUCTURAL
CRITERIA PROVIDED ON THE STRUCT	URAL DRAWINGS ARE TO BE SUBMITTE	ED TO THE STRUCTUR.
	OR THE STABILITY OF THE EXISTING STR OADS TO THE EXISTING STRUCTURE DU HE FINAL CONSTRUCTION OF THE STRU	IRING THE
	OR THE DESIGN, INSTALLATION AND R	EMOVAL OF ALL
EXISTING STRUCTURE DURING CONS STRUCTURAL ENGINEER TO PROVIDE	TRUCTION. THE CONTRACTOR IS TO U	
D-02 ALL EXISTING FOLINDATIONS AND FI	AND SHORING AS REQUIRED.	CONTRACT
DRAWINGS ARE INDICATED FOR REI CONTRACTOR. NOTIFY THE ENGINE	ERENCE ONLY AND ARE TO BE FIELD	VERIFIED BY THE THE EXISTING
CONDITIONS AND THOSE SHOWN C STRUCTURAL FRAMING SHOWN IS B	IN THE STRUCTURAL CONTRACT DOCU ASED ON FIELD VERIFICATION OF VISI	JMENTS. EXISTING BLE ELEMENTS.
WOOD FRAMING		
W-01 WOOD PROPERTIES: STRUCTURAL LUMBER:	SOUTHERN YELLOW PINE N	NO.2
ROOF SHEATHING:	PLYWOOD OR OSB, 5/8" S	NO.2 STANDARD C.D.
DETAIL, FABRICATE AND INSTALL ALI	. WOOD FRAMING PER STRUCTURAL C	CONTRACT
W-02 ALL WOOD FRAMING NOT SHOWN REQUIRED BY THE RIJII DING CODE	on structural drawings shall be	THE MINIMUM SIZE
W-03 ALL CONVENTIONAL LUMBER IN CC 18" TO EARTH IS TO BE PRESSURF TRE	NTACT WITH CONCRETE OR MASONR	Y OR CLOSER THAN
ENGINEERED WOOD PRODUCTS IN 18" TO EARTH IS TO BE CHEMICALLY	CONTACT WITH CONCRETE OR MASO TREATED OR WOLMANIZED TO SATISF	NRY OR CLOSER THAY
CATEGORY 3 OR 4. W-04 FOLLOW STRUCTURAL DRAWINGS F	OR BLOCKING AND BRIDGING REQUI	REMENTS. AS A
MINIMUM, PROVIDE SOLID 2x BLOC LOCATIONS:	KING AT ALL RAFTERS AND JOISTS AT T	THE FOLLOWING
ALL BEARING PO MIDSPAN	STAIC	
END OF ALL CA	ntilevered members r	
8'-0" ON CENTE		
8'-0" ON CENTE W-05 FOLLOW STRUCTURAL DRAWINGS F NOTCHING OF STRUCTURAL WOOD	OR ACCEPTABLE OPENINGS, HOLES AI FRAMING MEMBERS REQUIRED FOR T	ND SPECIAL THE INSTALLATION OF
8'-0" ON CENTE 8'-0" ON CENTE W-05 FOLLOW STRUCTURAL DRAWINGS F NOTCHING OF STRUCTURAL WOOD PLUMBING, ELECTRICAL, TELECOMM CONDUIT THROUGH WOOD MEMBE	OR ACCEPTABLE OPENINGS, HOLES A FRAMING MEMBERS REQUIRED FOR T 1UNICATION, MECHANICAL OR OTHE FRS. THE CONTRACTOR IS TO NOTIFY TH	nd Special 'He installation Of R utility lines and He design team Of
8'-0" ON CENTE 8'-0" ON CENTE W-05 FOLLOW STRUCTURAL DRAWINGS F NOTCHING OF STRUCTURAL WOOD PLUMBING, ELECTRICAL, TELECOM CONDUIT THROUGH WOOD MEMBI ANY CONDITIONS THAT DO NOT CO DRAWINGS.	OR ACCEPTABLE OPENINGS, HOLES A FRAMING MEMBERS REQUIRED FOR T AUNICATION, MECHANICAL OR OTHE FRS. THE CONTRACTOR IS TO NOTIFY TH MPLY WITH DETAILS SHOWN ON THE S	ND SPECIAL THE INSTALLATION OF R UTILITY LINES AND HE DESIGN TEAM OF STRUCTURAL
8'-0" ON CENTE 8'-0" ON CENTE W-05 FOLLOW STRUCTURAL DRAWINGS F NOTCHING OF STRUCTURAL WOOD PLUMBING, ELECTRICAL, TELECOMM CONDUIT THROUGH WOOD MEMBI ANY CONDITIONS THAT DO NOT CO DRAWINGS.	OR ACCEPTABLE OPENINGS, HOLES A FRAMING MEMBERS REQUIRED FOR T AUNICATION, MECHANICAL OR OTHE FRS. THE CONTRACTOR IS TO NOTIFY TI MPLY WITH DETAILS SHOWN ON THE S	ND SPECIAL THE INSTALLATION OF R UTILITY LINES AND HE DESIGN TEAM OF STRUCTURAL
	DESIGN LIVE LOADS:     ROOF     *ALL LIVE LOADS ARE REDUC BUILDING CODES. SNOW LOAD: GROUND SNOW LOAD, PG IMPORTANCE FACTOR, IC FLAT ROOF SNOW LOAD, PG WIND LOAD: BASIC WIND SPEED (3 SECO EXPOSUBE CATEGORY WIND BASE SHEAR (Y DIRECT WIND BASE SHEAR (Y DIRECT WIND DASE SHEAR (Y DIRECT WIND DASE SHEAR (Y DIRECT WIND DASE SHEAR (Y DIRECT WIND DASE SHEAR (Y DIRECT WIND COADS DETERMINED L THE GOVERNING BUILDING SEISMIC LOAD: USGS DESIGN MAP DESIGN MEHOD IMPORTANCE FACTOR, IE SITE CLASS MAPPED SPECTRAL RESPONS: MAPPED SPECTRAL RESPONS: SESMIC DASE SHEAR (X DIRE SISSMIC DASE SHEAR (X DIRE SISSMIC CASE SHEAR	DISIGN LIVE LOADS COUPE LOADS COUPE LOADS SHOW LOAD

## ABBREVIATIONS

0	AT	HD
&	AND	HORZ
#	NUMBER	INT
AB	ANCHOR BOLTS	INFO
ADDL	ADDITIONAL	JT
AFF	ABOVE FINISHED FLOOR	Κ
ALT	ALTERNATE	KSI
ARCH	ARCHITECT / ARCHITECTURAL	LBS
BOT	BOTTOM	IIH
BCX	BOTTOM CHORD EXTENSION	LLV
BLDG	BUILDING	LWC
BOS	BOTTOM OF STEEL	MAX
BRG	BEARING	MC
BTWN	BETWEEN	MFCH
CANT	CANTILEVER	MFP
CI	CONTROL JOINT	MFR
CI	CENTERLINE	MIN
CLR	CLEAR	MISC
CMU	CONCRETE MASONRY UNIT	MOW
COL	COLUMN	NS
CONC	CONCRETE	NTS
CONN	CONNECTION	NWC
CONS	CONSTRUCTION	00
CONT	CONTINUOUS	OPNG
CORD	COORDINATE	OPP
CTRD	CENTERED	PAF
d	PENNY (NAUS)	PARI
		PERP
DFT	DETAIL	PI
DIA	DIAMETER	PSF
DIM	DIMENSION	PSI
DIST	DISTANCE	PT
DN	DOWN	P_T
DWG	DRAWING	RFF
DWI	DOWFL	REIN
FA	FACH	REOD
FF		SCH
FF		SIM
FI	EXPANSION IOINT	SOG
FLFV	FLEVATION	SPEC
EMBD	EMBEDDED / EMBEDMENT	SQ
ENGR	ENGINEER	STD
FOD	FDGE OF DECK	STIF
FOS	EDGE OF SLAB	STIR
FQI	FQUAL	STI
FW	FACH WAY	ICX
FXST	EXISTING	THRU
FXP	EXPANSION	TOC
FXT	EXTERIOR	TOF
FDN	FOUNDATION	TOS
FFF		TOW
FOW	FACE OF WALL	TYP
FRT	FIRE RETARDANT TREATED	UNO
FS	FAR SIDE	VFRT
FIG	FOOTING	VIF
<u> </u>		
GA	GAUGE	W/

HEADED
HORIZONTAL
INTERIOR
KIPS PER SQUARE INCH
POUNDS
LONG LEG HORIZONTAL
LONG LEG VERTICAL
LIGHTWEIGHT CONCRETE
MAXIMUM
MOMENT CONNECTION
MECHANICAL
MECHANICAL, ELECTRICAL, PLUMBING
MANUFACTURER
NOT TO SCALE
NORMAL WEIGHT CONCRETE
ON CENTER
OPENING
OPPOSITE HAND
POWDER ACTUATED FASTENER
PARALLEL
PERPENDICULAR
PLATE
POUNDS PER SQAURE FOOT
POUNDS PER SQAURE INCH
REINFORCING
REQUIRED
SCHEDULE
SIMILAR
slab on grade
specification(s)
SQUARE
STANDARD
STIFFENER
STIRRUP(S)
STEFI
UNLESS NOTED OTHERWISE
VERTICAL
VERIFY IN FIELD
WITH
WORK POINT



S001









**6** EXISTING ROOF  $\frac{1}{2^{"} = 1^{-0^{"}}}$ 







